

DATE DISTR. 2 August 1948 50X1-HUM

NO. OF PAGES 2

NO. OF ENCLS. 50X1-HUM
(LISTED BELOW)

SUPPLEMENT TO
REPORT NO.

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THIS IS UNEVALUATED INFORMATION FOR THE
USE OF TRAINED INTELLIGENCE ANALYSTS

- The following is a report on work in progress in Department III on 31 May 1948.

- A prototype has been completed, but has not yet been tested for high frequency. The difficulties which had appeared with the final casting were overcome by a reinforcement. The body of the frame will, in the future, be drawn out in a new way and provided with a small flange. The difficulties appeared in the following manner: In the final casting the body of the frame became too hot and leakages developed in the ceramic casting. Further, a new burner with 6.3V heat-tension (Heissspannung) was developed. Results with the new burner are expected in about fourteen days.

The problem with the delivery of twenty tubes has been settled.

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DDA Memo, 4 Apr 77

Auth: DDA REG. 77 11702

Date: 19 APR 1964 50X1-HUM

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CENTRAL INTELLIGENCE AGENCY

-2-

Plan Nr. 53: Capacity Equalizing Apparatus

The work of construction is finished. The workshop work has begun. The lock-smith work for the frame has been let out on subcontract.

Plan Nr. 57: Measuring of Thermic Grid Currents

Undergoing tests.

Plan Nr. 04: Emission Measuring Table

Completed for shipment.

(Plan Number Not Stated): Triangular Cathode (5D 21)

The work on this problem proceeds normally. The difficulties relative to poor emission and faulty ceramic insulation resulting from vaporized metals are still not eliminated.

Plan Nr. 06: LG 11

Moulding and pump research are still carried out. Further, there are constructions in progress at lowered anode - cathode interval; at the same time, the cathode paste has a layer thickness of 40 μ as opposed to 30 μ in the former product.

Plan Nr. 09: Metal Ceramic Bolometer

In the meantime, about 40 bolometers were made void of air, of which about 15 are airtight. There are still difficulties with the squeezing-off of the pump stem, which should be overcome any moment through various experiments.

Plan Nr. 07: Eight-Slot Magnetron

The preparations for drilling the anodes are completed. The first anode is already bored and soldered. Difficulties appeared chiefly with the soldering of the anode parts because the beryllium-copper alloy did not take the silver solder. These difficulties were overcome by electroplating the anode parts with copper.

The first products will probably be completed by about 20 June 1948.

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